Computer DYNAMICS

QuickInstall Instructions

SBC-MaX

Use these instructions to install your new SBC-MaX computer and to set it up for use. Refer to your Technical Manual for further design, application and specification information.

Unpacking

Your product was packed at the factory for maximum protection during shipment. If any shipping damage is noted upon receipt, report it to your shipper. When unpacking, the following items should be included:

SBC-MaX Board
Power Supply and Cable (when ordered with Power Supply)
QuickInstall Instructions (this document)

Pre-Installation Checklist

- Make sure you have a Video Display, Keyboard, PS-2 Mouse and optionally Multimedia Speakers.
- Make sure you have the latest ethernet, sound and video drivers.
- Make sure you have a compatible IDE Hard drive and cable (if not ordered with Max board)
- Make sure you have the proper cables needed to complete the installation.
- Power Supply and proper Cable (when ordered with separate Power Supplies)
- Make sure your power supply has proper voltage outputs and sufficient available power to operate the computer.

Voltage	Req'd Power
+ 5 Vdc	38 Watts
+ 12 Vdc	3 Watts
- 12 Vdc	3 Watts

Installation

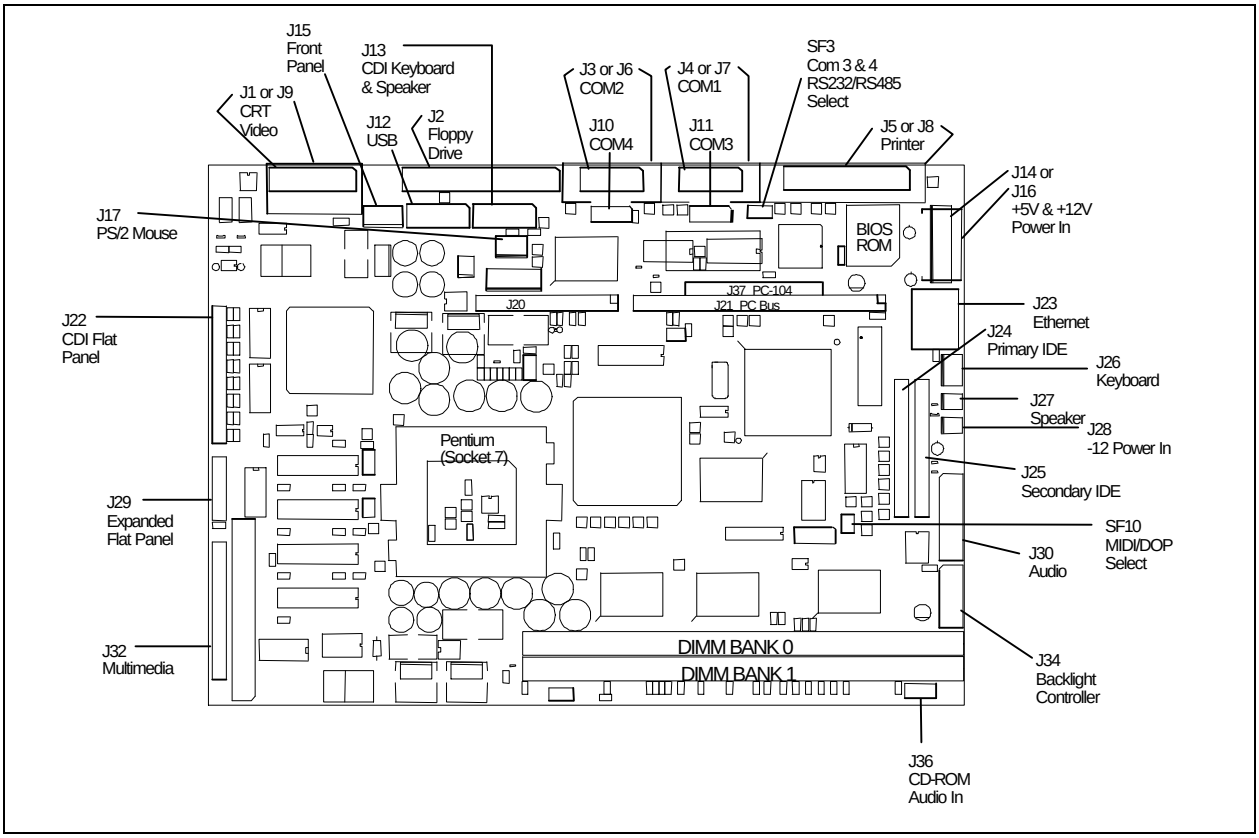
1. Connect the Video Cable to the Flat Panel Display (J22) connector on the rear of the SBC-MaX board and to the video input of the flat panel. Adapter cables may be needed depending on the version of SBC-MaX board you have purchased.
2. Connect the Power Supply to the Power Input (J14 or 16) connector.
3. Connect the Keyboard cable to J13.
4. Connect a PS2 mouse cable to J17.
5. Connect a 2.5" IDE harddrive to the Primary IDE (J24) connector on the SBC-MaX board.
6. Make sure to connect the harddrive to the connector at the far end of the cable. This will be identified as Drive 0.

If your Operating System was Factory Installed:

7. Check all connections, then power on both the SBC-MaX Power Supply and the Monitor or Flat Panel Display. ***DO NOT*** perform procedures in **Setup** section below.

If you are loading a NEW Operating System:

8. Attach a floppy disk drive to your system, at least temporarily. Connect the cable to the Floppy Drive (J2) connector on the board.
9. Make sure to connect the floppy drive to the connector at the far end of the cable. This will be identified as Drive A:
10. Place a bootable disk into the floppy drive.
11. Check all connections, then power on both the SBC-MaX Power Supply and the Monitor or Flat Panel Display.



Circuit Board Connector Locations

Setup

These procedures apply when installing a NEW Operating System on your computer.

1. On power-up pressing the F2 key will enter the BIOS Setup Menu. Make sure to load the default settings, then make the following setting changes as needed for your system configuration:

Diskette A:		is set to 1.44 MB, 3 ½"
IDE Adapter Master 0		
Multi-Sector Transfers	is set to	Disabled
Transfer Mode	is set to	Standard
Boot		
1.	is set to	Diskette Drive

2. Select EXIT, then 'Save Changes and Exit' to reboot the system with new settings.
3. Once the system has booted to the floppy drive follow the manufacturers instructions for installation of the desired Operating System. This may require the installation and setup of a CD-Rom drive depending on the media delivered by the manufacturer.

NOTE: Device setup procedures shown here are based on Windows 95™. Setup instructions are available for other Operating Systems, if needed.

Network

1. To set up the Network Drivers, select START | SETTINGS | CONTROL PANEL | SYSTEM | DEVICE MANAGER
2. Windows will load default drivers during setup, which need to be deleted. Select 'Other Devices' | 'PCI Ethernet Controller' | REMOVE
3. Return to CONTROL PANEL | select NETWORK
4. On 'Network Configuration' screen, select ADD | ADAPTER | ADD | Have Disk
5. Enter Copy from: "A:\ethernet\win95" | OK
6. Insert "Windows 95 Ethernet Disk 2" into Floppy Drive (A:) | OK
7. Select "RTL8139 Fast Ethernet Adapter" | OK
8. Select 'Primary Network Logon:' and 'Identification' appropriate for your network | NEXT
9. Exit to Windows Desktop, remove any Disks from Drive A:, and Restart the computer
10. On 'Enter Network Password' screen, enter Username, Password and Login Server

Sound

1. To set up the sound drivers, select START | SETTINGS | CONTROL PANEL | SYSTEM | DEVICE MANAGER
2. Windows will load default drivers during setup, which need to be deleted. Select 'Hard Disk Controllers' | 'Standard IDE/ESDI Hard Drive Controller' | PROPERTIES | check 'Disable in this hardware profile'
3. Select 'Sound, Video and Game Controllers' | 'Gameport Joystick' | PROPERTIES | check 'Disable in this hardware profile'
4. Select 'Other Devices' | 'ESS ES1868 Plug and Play AudioDrive' | PROPERTIES | DRIVER | UPDATE DRIVER
5. On 'Search for driver' screen, select YES | NEXT | OTHER LOCATIONS

6. Enter "A:\sound" | OK | FINISH
7. Remove any Disks from Drive A:, and Restart the computer.

Video

1. At Windows Desktop select: START | SETTINGS | CONTROL PANEL | DISPLAY
2. On Display Properties screen, select SETTINGS tab | ADVANCED PROPERTIES
3. Click on ADAPTOR tab | CHANGE
4. On Select Device screen, click 'HAVE DISK'
5. Insert the 'Windows95 Video Install Disk' into Drive A:
6. In the 'Install From Disk' screen, enter "A:\video" to install from, then select OK
7. Select 'Chips and Tech. 65555 PCI' on the Select Device screen, OK
8. On 'Advanced Display Properties' screen, select APPLY | OK
9. Select CLOSE on the Display Properties screen.
10. Remove the Install Disk from Drive A:
11. On 'System Settings Change' screen, select YES

Congratulations!

You have completed setup of your SBC-MaX and it is ready for use. You may repeat the setup procedures above whenever it is necessary to change the system characteristics for a different computer installation.

Technical Support

For further technical details you may visit our web-site at:

www.cdynamics.com/support/manuals

If you are experiencing problems with your SBC-MaX, or if you require additional information for implementing your computer, please contact your Computer Dynamics Applications Engineer with the specifics. We are available by phone Monday through Friday, 8:00 am to 6:00 pm, Eastern Time, and by fax or email anytime.

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